

WEST Search History

DATE: Wednesday, January 14, 2004

<u>Hide?</u>	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>			
<input type="checkbox"/>	L6	L3 and (cycliz\$ or macrocycliz\$) and thioesterase	136
<input type="checkbox"/>	L5	L3 and (cycliz\$ or macrocycliz\$)	275
<input type="checkbox"/>	L4	L3 and (thioesterase or cycliz\$ or macrocycliz\$)	316
<input type="checkbox"/>	L3	L2 or l1	579
<input type="checkbox"/>	L2	\$ribosomal adj2 peptide adj2 (synthase or synthetase)	92
<input type="checkbox"/>	L1	polyketide adj2 (synthase or synthetase)	559

END OF SEARCH HISTORY

10/017324
STN Search Summary

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(FILE 'HOME' ENTERED AT 16:32:29 ON 14 JAN 2004)

FILE 'CAPLUS' ENTERED AT 16:32:36 ON 14 JAN 2004

L1 1252 S (POLYKETIDE (2W) (SYNTHETASE OR SYNTHASE)) OR (?RIBOSOMAL (2W)
PEPTIDE (2W) (SYNTHETASE OR
SYNTHASE))
L2 155 S L1 AND THIOESTERASE
L3 31 S L2 AND CYCLIZ?
L4 37 S L2 AND ?CYCLIZ?
L5 6 S L4 NOT L3

L3 ANSWER 1 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:826990 CAPLUS

TI ~~Intermediates released from a polyether-producing polyketide synthase provide insight into the mechanism of oxidative cyclization~~
AU Hughes-Thomas, Zoe A.; Stark, B. W.; Boehm, Ines U.; Staunton, James;
Leadlay, Peter F.

SO Angewandte Chemie, International Edition (2003), 42(37), 4475-4478

L3 ANSWER 2 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:639631 CAPLUS

TI Loading Peptidyl-Coenzyme A onto Peptidyl Carrier Proteins: A Novel Approach in Characterizing Macrocyclization by Thioesterase Domains

AU Sieber, Stephan A.; Walsh, Christopher T.; Marahiel, Mohamed A.
SO Journal of the American Chemical Society (2003), 125(36), 10862-10866

L3 ANSWER 3 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:148430 CAPLUS

TI Epothilone C Macrolactonization and Hydrolysis Are Catalyzed by the Isolated Thioesterase Domain of Epothilone Polyketide Synthase

AU Boddy, Christopher N.; Schneider, Tanya L.; Hotta, Kinya; Walsh, Christopher T.; Khosla, Chaitan
SO Journal of the American Chemical Society (2003), 125(12), 3428-3429

L3 ANSWER 4 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:57433 CAPLUS

0 TI Enzymology of acyl chain macrocyclization in natural product biosynthesis
AU Kohli, Rahul M.; Walsh, Christopher T.
SO Chemical Communications (Cambridge, United Kingdom) (2003), (3), 297-307

L3 ANSWER 5 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:933289 CAPLUS

TI Biochemical Evidence for an Editing Role of Thioesterase II in the Biosynthesis of the Polyketide Pikromycin
AU Kim, Beom Seok; Cropp, T. Ashton; Beck, Brian J.; Sherman, David H.; Reynolds, Kevin A.
SO Journal of Biological Chemistry (2002), 277(50), 48028-48034

Abstract

L3 ANSWER 6 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:787034 CAPLUS
TI Characterization of the Surfactin Synthetase C-Terminal Thioesterase Domain as a Cyclic Depsipeptide Synthase
AU Tseng, Claire C.; Bruner, Steven D.; Kohli, Rahul M.; Marahiel, Mohamed A.; Walsh, Christopher T.; Sieber, Stephan A.
SO Biochemistry (2002), 41(45), 13350-13359

L3 ANSWER 7 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:613876 CAPLUS
TI Macrocyclizations catalyzed by TE domains of nonribosomal peptide synthetases
OK AU Walsh, Christopher
SO Abstracts of Papers, 224th ACS National Meeting, Boston, MA, United States, August 18-22, 2002 (2002), BIOL-104 Publisher: American Chemical Society, Washington, D. C.
DT Conference; Meeting Abstract

L3 ANSWER 8 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:588657 CAPLUS
TI Biomimetic synthesis and optimization of cyclic peptide antibiotics
AU Kohli, Rahul M.; Walsh, Christopher T.; Burkart, Michael D.
SO Nature (London, United Kingdom) (2002), 418(6898), 658-661

L3 ANSWER 9 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:568999 CAPLUS
TI An Unexpected Interaction between the Modular Polyketide Synthases, Erythromycin DEBS1 and Pikromycin PkAIV, Leads to Efficient Triketide Lactone Synthesis
AU Kim, Beom Seok; Cropp, T. Ashton; Florova, Galina; Lindsay, Yuko; Sherman, David H.; Reynolds, Kevin A.
SO Biochemistry (2002), 41(35), 10827-10833

L3 ANSWER 10 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:455976 CAPLUS
TI The vbs genes that direct synthesis of the siderophore vicibactin in Rhizobium leguminosarum: Their expression in other genera requires ECF sigma factor RpoI
AU Carter, R. A.; Worsley, P. S.; Sawers, G.; Challis, G. L.; Dilworth, M. J.; Carson, K. C.; Lawrence, J. A.; Wexler, M.; Johnston, A. W. B.; Yeoman, K. H.
SO Molecular Microbiology (2002), 44(5), 1153-1166

L3 ANSWER 11 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:290042 CAPLUS
TI The biosynthesis of the aromatic myxobacterial electron transport inhibitor stigmatellin is directed by a novel type of modular polyketide synthase
AU Gaitatzis, Nikolaos; Silakowski, Barbara; Kunze, Brigitte; Nordsiek, Gabriele; Blocker, Helmut; Hofle, Gerhard; Muller, Rolf
SO Journal of Biological Chemistry (2002), 277(15), 13082-13090

L3 ANSWER 12 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:184386 CAPLUS
TI Structural Basis for the Cyclization of the Lipopeptide
O Antibiotic Surfactin by the Thioesterase Domain SrfTE
AU Bruner, Steven D.; Weber, Thomas; Kohli, Rahul M.; Schwarzer, Dirk;
Marahiel, Mohamed A.; Walsh, Christopher T.; Stubbs, Milton T.
SO Structure (Cambridge, MA, United States) (2002), 10(3), 301-310

L3 ANSWER 13 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:124589 CAPLUS
TI The thioesterase domain from a nonribosomal
peptide synthetase as a cyclization catalyst
for integrin binding peptides
AU Kohli, Rahul M.; Takagi, Junichi; Walsh, Christopher T.
SO Proceedings of the National Academy of Sciences of the United States of
America (2002), 99(3), 1247-1252

L3 ANSWER 14 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:9360 CAPLUS
TI Crystal structure of the macrocycle-forming thioesterase domain
of the erythromycin polyketide synthase: versatility
from a unique substrate channel
AU Tsai, Shiou-Chuan; Miercke, Larry J. W.; Krucinski, Jolanta; Gokhale,
Rajesh; Chen, Julian C.-H.; Foster, Paul G.; Cane, David E.; Khosla,
Chaitan; Stroud, Robert M.
SO Proceedings of the National Academy of Sciences of the United States of
America (2001), 98(26), 14808-14813

L3 ANSWER 15 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:720371 CAPLUS
TI Exploring the impact of different thioesterase domains for the
design of hybrid peptide synthetases
AU Schwarzer, D.; Mootz, H. D.; Marahiel, M. A.
SO Chemistry & Biology (2001), 8(10), 997-1010

L3 ANSWER 16 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:637079 CAPLUS
TI Kinetic study on pikromycin thioesterase domain
AU Lu, Hongxiang; Cane, David E.
CS Department of Chemistry, Brown University, Providence, RI, 02912, USA
SO Abstracts of Papers, 222nd ACS National Meeting, Chicago, IL, United
States, August 26-30, 2001 (2001), BIOL-068 Publisher: American Chemical
Society, Washington, D. C.
DT Conference; Meeting Abstract

L3 ANSWER 17 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:445023 CAPLUS
TI Enzymes for peptide cyclization
AU Bordusa, Frank
SO ChemBioChem (2001), 2(6), 405-409 Published in: Angew. Chem., Int.
Ed., 40(11)
DT Journal; General Review

L3 ANSWER 18 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:360335 CAPLUS
TI Generality of peptide cyclization catalyzed by isolated thioesterase domains of nonribosomal peptide synthetases
AU Kohli, Rahul M.; Trauger, John W.; Schwarzer, Dirk; Marahiel, Mohamed A.; Walsh, Christopher T.
SO Biochemistry (2001), 40(24), 7099-7108

R L3 ANSWER 19 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:355497 CAPLUS
TI Cyclization of Backbone-Substituted Peptides Catalyzed by the Thioesterase Domain from the Tyrocidine Nonribosomal Peptide Synthetase
AU Trauger, John W.; Kohli, Rahul M.; Walsh, Christopher T.
SO Biochemistry (2001), 40(24), 7092-7098

L3 ANSWER 20 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:309791 CAPLUS
TI Identification of Claisen cyclase domain in fungal polyketide synthase WA, a naphthopyrone synthase of Aspergillus nidulans
AU Fujii, Isao; Watanabe, Akira; Sankawa, Ushio; Ebizuka, Yutaka
SO Chemistry & Biology (2001), 8(2), 189-197

L3 ANSWER 21 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:215899 CAPLUS
TI Molecular cloning and characterization of WdPKS1, a gene involved in dihydroxynaphthalene melanin biosynthesis and virulence in Wangiella (Exophiala) dermatitidis
AU Feng, Bin; Wang, Xu; Hauser, Melinda; Kaufmann, Sarah; Jentsch, Simone; Haase, Gerhard; Becker, Jeffery M.; Szaniszlo, Paul J.
SO Infection and Immunity (2001), 69(3), 1781-1794

L3 ANSWER 22 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:168127 CAPLUS
TI Saccharopolyspora spinosyn biosynthesis gene cluster and methods for preparing spinosyn and spinosyn derivatives
IN Eberz, Guenther; Moehrle, Volker; Froede, Rita; Velten, Robert; Salas, Jose A.
PA Bayer Aktiengesellschaft, Germany
SO PCT Int. Appl., 388 pp.
LA German

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	-----	-----	-----	-----
PI	WO 2001016303	A2	20010308	WO 2000-EP8013	20000817
	DE 19957268	A1	20010308	DE 1999-19957268	19991129
	EP 1212412	A2	20020612	EP 2000-956458	20000817
	JP 2003508050	T2	20030304	JP 2001-520850	20000817
PRAI	DE 1999-19940596	A	19990827		
	DE 1999-19957268	A	19991129		
	WO 2000-EP8013	W	20000817		

L3 ANSWER 23 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:779048 CAPLUS
TI Biosynthesis of the ansamycin antibiotic rifamycin: polyketide synthase processes multiple polyketide chains simultaneously
AU Doi-Katayama, Yukiko; Tang, Li; Park, Cheonseok; Yu, Tin-Wein; Shen, Yuemao; Moore, Bradley S.; Floss, Heinz G.; Hutchinson, C. Richard
SO Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1999), 41st, 637-642
DT Journal; General Review
LA Japanese

L3 ANSWER 24 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:674670 CAPLUS
TI Assembly of the *Pseudomonas aeruginosa* Nonribosomal Peptide Siderophore Pyochelin: In Vitro Reconstitution of Aryl-4,2-bisthiazoline Synthetase Activity from PchD, PchE, and PchF
AU Quadri, Luis E. N.; Keating, Thomas A.; Patel, Hiten M.; Walsh, Christopher T.
SO Biochemistry (1999), 38(45), 14941-14954

L3 ANSWER 25 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:548433 CAPLUS
O TI Elucidating the mechanism of chain termination switching in the picromycin/methymycin polyketide synthase
AU Tang, Li; Fu, Hong; Betlach, Melanie C.; McDaniel, Robert
SO Chemistry & Biology (1999), 6(8), 553-558

PS L3 ANSWER 26 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:168898 CAPLUS
TI Mechanism and specificity of the terminal thioesterase domain from the erythromycin polyketide synthase
AU Gokhale, Rajesh S.; Hunziker, Daniel; Cane, David E.; Khosla, Chaitan
SO Chemistry & Biology (1999), 6(2), 117-125

L3 ANSWER 27 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:144100 CAPLUS
TI Thioesterase function in the synthetase of the siderophore enterobactin
AU Shaw-Reid, C. A.; Kelleher, N.; Ehmann, D. E.; Walsh, C. T.
SO Book of Abstracts, 217th ACS National Meeting, Anaheim, Calif., March 21-25 (1999), BIOT-086 Publisher: American Chemical Society, Washington, D. C.
DT Conference; Meeting Abstract

O L3 ANSWER 28 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:395190 CAPLUS
TI The thioesterase of the erythromycin-producing polyketide synthase: influence of acyl chain structure on the mode of release of substrate analog from the acyl enzyme intermediates
AU Weissman, Kira J.; Smith, Cameron; Hanefield, Ulf; Aggarwak, Ranjana; Bycroft, Matthew; Staunton, James; Leadlay, Peter F.
SO Angewandte Chemie, International Edition (1998), 37(10), 1437-1440

L3 ANSWER 29 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1996:544183 CAPLUS
TI Engineered biosynthesis of structurally diverse tetraketides by a trimodular polyketide synthase
AU Kao, Camilla M.; Luo, Guanglin; Katz, Leonard; Cane, David E.; Khosla, Chaitan
SO Journal of the American Chemical Society (1996), 118(38), 9184-9185

L3 ANSWER 30 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1996:463863 CAPLUS
TI Erythromycin biosynthesis: exploiting the catalytic versatility of the modular polyketide synthase
AU Luo, Guanglin; Pieper, Rembert; Rosa, Angela; Khosla, Chaitan; Cane, David E.
SO Bioorganic & Medicinal Chemistry (1996), 4(7), 995-999

L3 ANSWER 31 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1995:269914 CAPLUS
TI The biosynthetic gene cluster for coronamic acid, an ethylcyclopropyl amino acid, contains genes homologous to amino acid-activating enzymes and thioesterases
AU Ulrich, Matthias; Bender, Carol L.
SO Journal of Bacteriology (1994), 176(24), 7574-86

L5 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:694136 CAPLUS
TI Polyketide-nonribosomal peptide epothilone antitumor agents: the EpoA, B, C subunits
AU Walsh, Christopher T.; O'Connor, Sarah E.; Schneider, Tanya L.
SO Journal of Industrial Microbiology & Biotechnology (2003), 30(8), 448-455

L5 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:382263 CAPLUS
TI Chemoenzymatic Route to Macrocyclic Hybrid Peptide/Polyketide-like Molecules
AU Kohli, Rahul M.; Burke, Martin D.; Tao, Junhua; Walsh, Christopher T.
SO Journal of the American Chemical Society (2003), 125(24), 7160-7161

L5 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:859146 CAPLUS
TI Regeneration of misprimed nonribosomal peptide synthetases by type II thioesterases
AU Schwarzer, Dirk; Mootz, Henning D.; Linne, Uwe; Marahiel, Mohamed A.
SO Proceedings of the National Academy of Sciences of the United States of America (2002), 99(22), 14083-14088

L5 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:732138 CAPLUS
TI Insights into channel architecture and substrate specificity from crystal structures of two macrocycle-forming thioesterases of modular polyketide synthases
AU Tsai, Shiou-Chuan; Lu, Hongxiang; Cane, David E.; Khosla, Chaitan; Stroud, Robert M.
SO Biochemistry (2002), 41(42), 12598-12606

L5 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:481443 CAPLUS
TI In Vitro Reconstitution of the *Pseudomonas aeruginosa* Nonribosomal Peptide
Synthesis of Pyochelin: Characterization of Backbone Tailoring Thiazoline
Reductase and N-Methyltransferase Activities
AU Patel, Hiten M.; Walsh, Christopher T.
SO Biochemistry (2001), 40(30), 9023-9031

L5 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:768701 CAPLUS
TI Characterization of the angR gene of *Vibrio anguillarum*: essential role in
virulence
AU Wertheimer, A. M.; Verweij, W.; Chen, Q.; Crosa, L. M.; Nagasawa, M.;
Tolmasky, M. E.; Actis, L. A.; Crosa, J. H.
SO Infection and Immunity (1999), 67(12), 6496-6509